MXM/TM FAULT CODES

Codes common to all MXM/TMs

Digital Instrument Cluster Codes (EIC)

Error Code 1 - Engine Oil Pressure Sender Short Or Open Circuit
Error Code 2 - Engine Oil Pressure Sender Short To +Ve Voltage
Error Code 3 - Fuel Tank Level Sender Short To Ground
Error Code 4 - Fuel Tank Level Sender Open Circuit Or Short To +Ve Voltage
Error Code 5 - Wheel Speed Sender Short Circuit
Error Code 6 - Wheel Speed Sender Open Circuit
Error Code 7 - Coolant Temperature Sender Short Circuit
Error Code 8 - EDC Serial Link Failure. Communications Error
Error Code 9 - Transmission Serial Link Failure. Communications Error
Error Code 10 - Memory Retention Error Of Battery Calibration Constant
Error Code 11 -Memory Retention Error Of Operator Setting For Slip Alarm, Slip Zero Reference Constant, Implement Width And Service Hours
Error Code 12 -Coolant Temperature Sender Open Circuit Or Shorted To A + Ve Voltage
Error Code 13 - Engine Shut Down Output Short To A +Ve Voltage
Instrument Cluster Inoperative

Electronic Hitch Codes (CFPS or GCM1)

Error code HL - Height limit incorrectly set to perform auto calibration
Error Code 2 - Poor Or No Signal From Tractor Performance Monitor Radar
Error Code 3 - Radar (Ground Speed) Greater Than Wheel Speed
Error Code 4 - Wheel Speed Greater Than Maximum Speed Of Tractor
Error Code 5 - Wheel Speed Zero When Radar Is Indicating Ground Speed
Error Code 6 - Slip Control Voltage Low (Short Or Open Circuit)
Error Code 7 - Slip Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 8 - Raise/Work Switch Failure
Error Code 9 - Both External Lift/Lower Fender Switches Are Being Operated Simultaneously
Error Code 10 - Height Limit Control Voltage Low (Short Or Open Circuit)
Error Code 11 - Height Limit Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 12 - Drop Rate Control Voltage Low (Short Or Open Circuit)
Error Code 13 - Drop Rate Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 14 -Open Circuit Connection To Load Sensing Pin, Short Circuit To Ground Or Failed Load Sensing Pin
Error Code 15 -Load Sensing Pin Short Circuit To +12 Volts, Failed Or Corroded Load Sensing Pin
Error Code 16 -Open Circuit Connection To Load Sensing Pin, Short Circuit To Ground Or Failed Load Sensing Pin
Error Code 17 -Load Sensing Pin Short Circuit To +12 Volts, Failed Or Corroded Load Sensing Pin

Error Code 18 - Both Load Sensing Pins Disconnected
Error Code 19 -Pin Reference Voltage Less Than 8 Volts (Short Or Open Circuit)
Error Code 20 -Pin Reference Voltage Greater Than 8 Volts (Short To +12 Volts)
Error Code 21 -Draft Sensitivity Control Voltage Low (Short Or Open Circuit)
Error Code 22 -Draft Sensitivity Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 23 - Control Panel Disconnected
Error Code 24 - Perform Hydraulic Lift Calibration
Error Code 25 -Position Lever Potentiometer Control Voltage Low (Short Or Open Circuit)
Error Code 26 -Position Lever Potentiometer Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 27 -Lift Arm Position Sensing Control Voltage Low (Short Or Open Circuit)
Error Code 28 -Lift Arm Position Sensing Control Voltage High (Damaged Potentiometer Or Short To +12 Volts)
Error Code 29 - Hydraulic Control Valve Disconnected
Error Code 30 - Signal Ground Open Circuit
Error Code 31 - Chassis Harness Disconnected
Error Code 32 - Draft Load Potentiometer Shorted To +12v
Error Code 33 -Draft Control Potentiometer Open Circuit Or Short To Ground
Error Code 49 - Wheel Speed Sensor Open Or Short Circuit
Error Code 53 - Microprocessor 5 Volt Reference Shorted To +12 Volts
Error Code 54 - Microprocessor 5 Volt Reference Shorted To Ground
Error Code 57 - EDC Microprocessor Failure
Error Code 59 - Microprocessor Reference Voltage Open Circuit
Error Code 63 - EDC Hydraulic Valve Lower Solenoid Open Circuit
Error Code 64 - EDC Hydraulic Valve Raise Solenoid Open Circuit
Error Code 65 - EDC Hydraulic Valve Lower Solenoid Short Circuit
Error Code 66 - EDC Hydraulic Valve Raise Solenoid Short Circuit
Error Code 67 - EDC Hydraulic Valve Supply Voltage Too Low
Error Code 69 - Control Lever EDC Raise/Lower Switch Failure

Front Suspended Axle Codes (GCM1 or XCM)
Error Code L01 - Lockout Valve Raising Solenoid Not Working
Error Code L02 - Raising Solenoid Not Working
Error Code L03 - Lowering Solenoid Not Working
Error Code L04 -Front Axle Potentiometer Threshold Is Higher Than The Set Limit
Error Code L05 -Front Axle Potentiometer Threshold Is Lower Than The Set Limit
Error Code L06 - The Suspension Is Not Calibrated
Error Code L07 -Front Axle Weight Has Been Reduced But The Suspension Is Unable To Reset Nominal Height
Error Code L08 -Front Axle Weight Has Been Increased But The Suspension Is Unable To Reset Nominal Height
Error Code L09 - Lockout Valve Lower Solenoid Not Working

PTO Codes Common to the MXM/TM120-MXM/TM155 (EMU)

NOTE: If P34 and P40 appear, see Knowledge for keywords “Error codes P34 and P40 display” and follow the resolution.

Error Code P01 - Rear PTO Brake Solenoid Stuck Off
Error Code P02 - Rear PTO Brake Solenoid Stuck On
Error Code P03 - Rear PTO Brake Output Open Circuit
Error Code P04 – Rear PTO Brake Driver Over Temperature
Error Code P05 – Rear PTO Brake Switch open circuit
Error Code P06 - Rear PTO Not Calibrated
Error Code P07 – Rear PTO Solenoid Over Current
Error Code P08 - Rear PTO Solenoid Stuck Off
Error Code P15 - Differential Lock Solenoid Stuck Off
Error Code P16 - Differential Lock Solenoid Stuck On
Error Code P17 - Differential Lock Output Open Circuit
Error Code P18 - Differential Lock Driver Over Temperature
Error Code P21 - 4wd Solenoid Stuck Off
Error Code P22 - 4wd Solenoid Stuck On
Error Code P23 - 4wd Output Open Circuit
Error Code P24 - 4wd Driver Over Temperature
Error Code P27 - PTO Speed Sensor Open Circuit
Error Code P31 - Steering Sensor Out Of Range - (Maximum Voltage)
Error Code P32 - Steering Sensor Out Of Range - (Minimum Voltage)
Error Code P33 - Rear PTO Cab Switch Momentary Contact Open
Error Code P34 -Fender Mounted Rear PTO Switch Open Circuit Or Short To Ground Error Code P35 -Fender Mounted Rear PTO Switch Input Short To +12v Or Short Across Fender Switch Wires
Error Code P36 - Rear PTO Failure To Start - Relay Or Switch Wiring Fault
Error Code P37 -Rear PTO Cab Switch Momentary Contact Stuck Closed (Longer Than 30 Seconds)
Error Code P38 -Cab And Fender Rear PTO Controls Operated Within 2 Seconds Of Each Other
Error Code P39 -Incorrect Voltage On Fender Mounted Rear PTO Switch Input (If Fitted)
Error Code P40 - PTO Relay Short To +12v Or An Open Circuit
Error Code P41 - PTO Fender Switch Relay Short To Ground
Common Test Procedure For All Of The Switch Circuits Connecting To Ground

Active Fan Beep Codes Common to the MXM/TM120-MXM/TM155 (SCM)
SWB Active Fan codes (number of short tones-do NOT count the first tone) Search Knowledge for keywords “Visctronic fan troubleshooting information requested” and follow the resolution for the retrieval procedure.

Error Code 1 - Transmission oil sensor fault.
Error Code 2 - Engine coolant sensor fault.
Error Code 3 - Transmission oil temperature implausible (compared to engine coolant temperature).

Error Code 4 - Fan speed out of range.
Error Code 5 - Maximum fan speed low (maximum fan speed demanded but not achieved).
Error Code 6 - +5V reference error.
Error Code 7 - Fan speed output signal error.

Semi Powershift MXM/TM120-MXM/TM155
Calibration Codes (all controllers)
Error Code CF - Calibration Procedure Completed Successfully
Error Code CH - Oil Temperature Above 105 Degrees Centigrade
Error Code CL - Oil Temperature Between 10 and 19 Degrees Centigrade
Error Code U01 - Front Axle Potentiometer Open Circuit
Error Code U02 -Front Axle Potentiometer Threshold Is Higher Than The Set Limit
Error Code U03 -Front Axle Potentiometer Short Circuit Auto Calibration Procedure Will Not Work
Error Code U04 -Front Axle Potentiometer Threshold Is Lower Than The Set Limit
Error Code U05 -Front Suspension Is Not Reaching Minimum And Maximum Position During The Auto Calibration Procedure
Error Code U07 -Suspension Is Stationary During The Raise Command In The Auto Calibration Procedure
Error Code U08 -Suspension Is Unable To Reach Maximum Height Within 20 Seconds
Error Code U09 -Suspension Is Stationary During The Lowering Command In The Auto Calibration Procedure
Error Code U10 -Suspension Is Unable To Reach The Minimum Height Within 25 Seconds
Error Code U11 - Unable To Calibrate The Suspension
Error Code U12 -Auto Calibration Procedure Stopped/Vehicle Not Stationary
Error Code U19 - Oil Temperature Below 10 Degrees Centigrade
Error Code U21 - Engine RPM Too Low
Error Code U22 - Engine RPM Too High
Error Code U23 - Shuttle Lever In Neutral
Error Code U26 - Clutch Pedal Not Released
Error Code U31 - Output Speed Sensed - Tractor Moving
Error Code U33 - Hand Brake Not Applied
Error Code U34 - Seat Switch Not Activated
Error Code U36 - Maximum Allowed Clutch Calibration Value Exceeded
Error Code U37 - Engine RPM Dropped Too Soon
Error Code U38 - High / Low synchroniser calibration values out of tolerance (Forward)
Error Code U81 - No Medium/Reverse Range Synchronizer Movement Sensed
Error Code U82 - No Low/High Range Synchronizer Movement Sensed
Error Code U83 - Synchronizer Potentiometer Connectors Swapped
Error Code U84 - Reverse And High Range Synchronizer Solenoid Connectors Swapped
Error Code U85 - Medium And Low Range Synchronizer Solenoid Connectors Swapped
Error Code U86 - Medium/Reverse Range Synchronizer Neutral Error
Error Code U87 - Low/High Range Synchronizer Neutral Error
Error Code U88 - Medium/Reverse Range Synchronizer Calibration Values Out Of Tolerance

Error Code U89 - Low/High Range Synchronizer Calibration Values Out Of Tolerance

Transmission Codes (GCM2 or TCM) (Semi Powershift)
Error Code CP - Depress The Clutch Pedal To Re-Enable The Transmission
Error Code F02 - High/Low Synchronizer Not Calibrated Or A Bad Calibration
Error Code F03 - Medium/Reverse Synchronizer Not Calibrated Or A Bad Calibration
Error Code F11 - Clutch Potentiometer Voltage Below Valid Range
Error Code F12 - Clutch Potentiometer Voltage Above Valid Range
Error Code F13 - Upshift And Downshift Switches Both Closed
Error Code F1A - Clutch A Solenoid Open Circuit Or Short To Ground
Error Code F1B - Clutch B Solenoid Open Circuit Or Short To Ground
Error Code F1C - Clutch C Solenoid Open Circuit Or Short To Ground
Error Code F1D - Clutch D Solenoid Open Circuit Or Short To Ground
Error Code F1E - Clutch E Solenoid Open Circuit Or Short To Ground
Error Code F1H - High Range Solenoid Open Circuit Or Short To Ground
Error Code F1L - Low Range Solenoid Open Circuit Or Short To Ground
Error Code F1P - Reverse Range Solenoid Open Circuit Or Short To Ground
Error Code F1U - Medium Range Solenoid Open Circuit Or Short To Ground
Error Code F20 - Range Shift Synchronizer Did Not Engage
Error Code F21 - Transmission Extension Harness To Main Harness Disconnected
Error Code F22 - Range Shift Synchronizer Did Not Disengage
Error Code F23 - Creeper Engaged Speed Or Gear To High
Error Code F24 - All Clutches And Synchronizers Require Calibration
Error Code F27 - Engine RPM Signal Not Present
Error Code F2A - Clutch A Solenoid Over Voltage
Error Code F2B - Clutch B Solenoid Over Voltage
Error Code F2C - Clutch C Solenoid Over Voltage
Error Code F2D - Clutch D Solenoid Over Voltage
Error Code F2E - Clutch E Solenoid Over Voltage
Error Code F31 - Range Shift Synchronizer Did Not Engage During Shuttle Shift
Error Code F32 - High Range Synchronizer Did Not Engage During Start Up Sequence, Within Specified Time (This Is Part Of A System Test During Start Up)
Error Code F33 - Synchronizer Did Not Disengage
Error Code F34 - Synchronizer Did Not Disengage After Start Up Power Up (Part Of Start Up Sequence)
Error Code F35 - Synchronizer Did Not Engage Previous Range After Error Code F20 Or F22
Error Code F36 - Synchronizer Disengaged Without Driver Initiation
Error Code F37 - Clutch Disconnect Switch Open Circuit
Error Code F38 - Disabled Range Selected By The Operator
Error Code F40 - Medium/Reverse Range Synchronizer Potentiometer Over Voltage
Error Code F41 - Medium/Reverse Range Synchronizer Potentiometer Under Voltage
Error Code F42 - Low/High Range Synchronizer Potentiometer Over Voltage
Error Code F43 - Low/High Range Synchronizer Potentiometer Under Voltage
Error Code F44 - Medium/Reverse Range Synchronizer Potentiometer Out Of Calibrated Range

Error Code F45 - Low/High Range Synchronizer Potentiometer Out Of Calibrated Range
Error Code F47 - Clutch Disconnect Switch Misadjusted High
Error Code F48 - Clutch Disconnect Switch Short Circuit
Error Code F49 - Transmission Output Speed Sensor Open Circuit
Error Code F50 - Transmission Output Speed Sensor Short To Ground
Error Code F51 - Temperature Sender Open Circuit
Error Code F52 - Temperature Sender Short To Ground
Error Code F53 - +5 Volt Reference Voltage Too High
Error Code F54 - +5 Volt Reference Voltage Too Low
Error Code F55 - +8 Volt Reference Voltage Too High
Error Code F56 - +8 Volt Reference Voltage Too Low
Error Code F59 - Forward/Neutral/Reverse Switch Disagreement (More Than One Switch Is Engaged)
Error Code F60 - Upshift Switch Input Voltage Low
Error Code F61 - Upshift Switch Input Voltage High
Error Code F62 - Downshift Switch Input Voltage Low
Error Code F63 - Downshift Switch Input Voltage High
Error Code F64 - Range shift Switch Input Voltage Low
Error Code F65 - Range shift Switch Input Voltage
High
Error Code F66 - Shuttle Lever Forward Switch Input Voltage Low
Error Code F67 - Shuttle Lever Forward Switch Input Voltage
High Error Code F68 - Shuttle Lever Reverse Switch Input Voltage
Low Error Code F69 - Shuttle Lever Reverse Switch Input Voltage
High Error Code F73 - Transmission Mid Speed Sensor Open
Circuit Error Code F74 - Transmission Mid Speed Sensor Short To
Ground Error Code F75 - Swapped Mid And Output Speed Sensors
Error Code F77 - No Signal From The Output Speed Sensor
Error Code F78 - No Signal From The Transmission Mid Speed Sensor
Error Code F79 - Engine RPM Exceeds 3000 RPM
Error Code F80 - Transmission Output Rev/Min Too High For The Selected Gear
Error Code F81 - Clutch Slipping
Error Code FCA - Clutch A Not Calibrated
Error Code FCB - Clutch B Not Calibrated
Error Code FCC - Clutch C Not Calibrated
Error Code FCD - Clutch D Not Calibrated
Error Code FCE - Clutch E Not Calibrated

FULL POWERSHIFT MXM/TM120-MXM/TM155

Calibration Codes (all controllers)
Error Code CF - Calibration Procedure Completed Successfully
Error Code CH - Oil Temperature Above 105 Degrees Centigrade
Error Code CL - Oil Temperature Between 10 and 59 Degrees Centigrade
Error Code U01 - Front Axle Potentiometer Open Circuit
Error Code U02 -Front Axle Potentiometer Threshold Is Higher Than The Set Limit

Error Code U03 -Front Axle Potentiometer Short Circuit Auto Calibration Procedure Will Not Work
Error Code U04 -Front Axle Potentiometer Threshold Is Lower Than The Set Limit
Error Code U05 -Front Suspension Is Not Reaching Minimum And Maximum Position During The Auto Calibration Procedure
Error Code U07 -Suspension Is Stationary During The Raise Command In The Auto Calibration Procedure
Error Code U08 -Suspension Is Unable To Reach Maximum Height Within 20 Seconds
Error Code U09 -Suspension Is Stationary During The Lowering Command In The Auto Calibration Procedure
Error Code U10 -Suspension Is Unable To Reach The Minimum Height Within 25 Seconds
Error Code U11 - Unable To Calibrate The Suspension
Error Code U12 -Auto Calibration Procedure Stopped/Vehicle Not Stationary
Error Code U19 - Oil Temperature Below 60 Degrees Centigrade
Error Code U21 - Engine RPM Too Low
Error Code U22 - Engine RPM Too High
Error Code U23 - Shuttle Lever In Neutral
Error Code U26 - Clutch Pedal Not Released
Error Code U31 - Output Speed Sensed - Tractor Moving
Error Code U33 - Hand Brake Not Applied
Error Code U34 - Seat Switch Not Activated
Error Code U36 - Maximum Allowed Clutch Calibration Value Exceeded
Error Code U37 - Engine RPM Dropped Too Soon

Transmission Codes (CFPS)
Error Code CP - Depress The Clutch Pedal To Re-Enable The Transmission
Error Code F11 - Clutch Potentiometer Voltage Below Valid Range
Error Code F12 - Clutch Potentiometer Voltage Above Valid Range
Error Code F13 - Open Circuit From Fuse 13
Error Code F1F - Configuration error (download the latest software)
Error Code F21 -Transmission Extension Harness To Main Harness Disconnected
Error Code F23 – Creeper Engaged In A Gear Higher Than 10th
Error Code F24 - All Clutches And Synchronizers Require Calibration
Error Code F27 – ERPM Signal Not Present
Error Code F37 - Clutch Disconnect Switch Open Circuit
Error Code F38 - Reverse Not Allowed
Error Code F47 - Clutch Disconnect Switch Misadjusted High
Error Code F48 - Clutch Disconnect Switch Short Circuit
Error Code F49 - Transmission Output Speed Sensor Open Circuit
Error Code F50 - Transmission Output Sensor Short To Ground
Error Code F51 - Temperature Sender Open Circuit
Error Code F52 - Temperature Sender Short To Ground
Error Code F53 - +5 Volt Reference Voltage Too High
Error Code F54 - +5 Volt Reference Voltage Too Low

Error Code F59 -Forward/Neutral/Reverse Switch Disagreement (More Than One Switch Is Engaged)
Error Code F60 - Upshift Switch Input Voltage Low
Error Code F61 - Upshift Switch Input Voltage High
Error Code F62 - Downshift Switch Input Voltage Low
Error Code F63 - Downshift Switch Input Voltage High
Error Code F64 -Forward Pressure Switch Open Circuit Or Short To Ground
Error Code F65 -Reverse Pressure Switch Open Circuit Or Short To Ground
Error Code F66 - Shuttle Lever Forward Switch Input Voltage Low
Error Code F67 - Shuttle Lever Forward Switch Input Voltage High Error Code F68 - Shuttle Lever Reverse Switch Input Voltage Low Error Code F69 - Shuttle Lever Reverse Switch Input Voltage High Error Code F70 - Torque Damper Fault
Error Code F71 - Engine Torque/RPM Sensor Open Circuit
Error Code F72 - Engine Torque/RPM Sensor Short To Ground
Error Code F73 - Transmission Mid Speed Sensor Open Circuit
Error Code F74 - Transmission Mid Speed Sensor Short To Ground
Error Code F75 - Swapped Mid And Output Speed Sensors
Error Code F76 -Swapped Engine Torque/RPM Sensor With Either The Mid Or Output Speed Sensors
Error Code F77 - No Signal From The Output Speed Sensor
Error Code F78 - No Signal From The Transmission Mid Speed Sensor
Error Code F79 - Engine RPM Exceeds 3000 Rev/Min
Error Code F80 -Transmission Output Rev/Min Too High For The Selected Gear
Error Code F81 - Clutch Slipping
Error Code F82 -Foot Throttle Position Sensor Potentiometer Short Circuit To +8 Volts Or +12 Volts
Error Code F83 -Foot Throttle Sensor Potentiometer Open Circuit Or Short To Ground
Error Code F84 -Pressure Indicated On Forward Clutch Pressure Switches When The Clutch Solenoids Are Off
Error Code F85 -Pressure Indicated On Reverse Clutch Pressure Switch When The Clutch Solenoids Are Off
Error Code F91 - Display Of Gears Controller (CAN Dog) Not Present
Error Code FA1 -Low Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA2 -Medium Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA3 -High Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA4 -Reverse Clutch Solenoid Open Circuit Or Short To Ground
Error Code FAA - Clutch A Solenoid Open Circuit Or Short To Ground
Error Code FAB - Clutch B Solenoid Open Circuit Or Short To Ground
Error Code FAC - Clutch C Solenoid Open Circuit Or Short To Ground
Error Code FAD - Clutch D Solenoid Open Circuit Or Short To Ground
Error Code FAE - Clutch E Solenoid Open Circuit Or Short To Ground
Error Code FAF - PTO Lube Solenoid Open Circuit Or Short To Ground Error Code FB1 - Low Range Clutch Solenoid Over Voltage
Error Code FB2 - Medium Range Clutch Solenoid Over Voltage
Error Code FB3 - High Range Clutch Solenoid Over Voltage

Error Code FB4 - Reverse Clutch Solenoid Over Voltage
Error Code FBA - Clutch A Solenoid Over Voltage
Error Code FBB - Clutch B Solenoid Over Voltage
Error Code FBC - Clutch C Solenoid Over Voltage
Error Code FBD - Clutch D Solenoid Over Voltage
Error Code FBE - Clutch E Solenoid Over Voltage
Error Code FBF - PTO Lube Solenoid Over Voltage
Error Code FC0 - Secondary Controller (CFPS) Is Not Configured
Error Code FC1 - Medium Range Clutch Not Calibrated
Error Code FC2 - High Range Clutch Not Calibrated
Error Code FC3 - Reverse Clutch Not Calibrated
Error Code FC9 - Configuration error (download the latest software)
Error Code FCA - Clutch A Not Calibrated
Error Code FCB - Clutch B Not Calibrated
Error Code FCC - Clutch C Not Calibrated
Error Code FCD - Clutch D Not Calibrated
Error Code FCE - Clutch E Not Calibrated
Error Code FCF - Low Range Clutch Not Calibrated
Error Code N - Shift To Neutral To Re-Enable The Transmission

Full Powershift MXM/TM175 And MXM/TM190

Calibration Codes (all controllers)
Error Code CF - Calibration Procedure Completed Successfully
Error Code CH - Oil Temperature Above 105 Degrees Centigrade
Error Code CL - Oil Temperature Between 10 And 59 Degrees Centigrade
Error Code U1 - Flow Control For Lever 1 Set Incorrectly During Calibration
Error Code U2 - Flow Control For Lever 2 Set Incorrectly During Calibration
Error Code U3 - Flow Control For Lever 3 Set Incorrectly During Calibration
Error Code U4 - Flow Control For Lever 4 Set Incorrectly During Calibration
Error Code U01 - Front Axle Potentiometer Open Circuit
Error Code U02 -Front Axle Potentiometer Threshold Is Higher Than The Set Limit
Error Code U03 -Front Axle Potentiometer Short Circuit Auto Calibration Procedure Will Not Work
Error Code U04 -Front Axle Potentiometer Threshold Is Lower Than The Set Limit
Error Code U05 -Front Suspension Is Not Reaching Minimum And Maximum Position During The Auto Calibration Procedure
Error Code U07 -Suspension Is Stationary During The Raise Command In The Auto Calibration Procedure
Error Code U08 -Suspension Is Unable To Reach Maximum Height Within 20 Seconds
Error Code U09 -Suspension Is Stationary During The Lowering Command In The Auto Calibration Procedure
Error Code U10 -Suspension Is Unable To Reach The Minimum Height Within 25 Seconds
Error Code U11 - Unable To Calibrate The Suspension
Error Code U12 -Auto Calibration Procedure Stopped/Vehicle Not Stationary

Error Code U19 - Oil Temperature Below 10 Degrees Centigrade
Error Code U21 - Engine RPM Too Low
Error Code U22 - Engine RPM Too High
Error Code U23 - Shuttle Lever In Neutral
Error Code U26 - Clutch Pedal Not Released
Error Code U31 - Output Speed Sensed - Tractor Moving
Error Code U33 - Hand Brake Not Applied
Error Code U34 - Seat Switch Not Activated
Error Code U36 - Maximum Allowed Clutch Calibration Value Exceeded
Error Code U37 - Engine RPM Dropped Too Soon
Error Code U41 – PTO speed detected (PTO brake circuit open or PTO solenoid sticking)
Error Code U43 – PTO calibration aborted
Error Code U45 – No PTO shaft movement (PTO circuit open)
Error Code U50 - PTO Twist Sensor Not Calibrated
Error Code U51 - Unable To Achieve The Required Engine Speed
Error Code U52 -Constant Engine RPM (CERPM) Switch Switched More Than 3 Times
Error Code U53 - Remote Levers Used When Calibrating
Error Code U54 - Steering Used When Calibrating
Error Code U55 - PTO Engaged When Calibrating
Error Code U56 - Engine Torque/RPM Sensor Open Circuit
Error Code U57 - Engine Torque/RPM Sensor Short To Ground
Error Code U58 - PTO Twist Sensor Open Circuit
Error Code U59 - PTO Twist Sensor Short To Ground
Error Code U60 - Out Of Range Calibration Value

Transmission Error Codes (CFPS)
Error Code CP - Depress The Clutch Pedal To Re-Enable The Transmission
Error Code F11 - Clutch Potentiometer Voltage Below Valid Range
Error Code F12 - Clutch Potentiometer Voltage Above Valid Range
Error Code F13 - Open Circuit From Fuse 13
Error Code F19 -19th Gear Clutch Solenoid Open Circuit Or Short To Ground
Error Code F1F - Configuration error (download the latest software)
Error Code F20 -19th Gear Clutch Dump Solenoid Open Circuit Or Short To Ground
Error Code F21 -Transmission Extension Harness To Main Harness Disconnected
Error Code F23 – Creeper Engaged In A Gear Higher Than 10th
Error Code F24 - All Clutches And Synchronizers Require Calibration
Error Code F27 – ERPM Signal Not Present
Error Code F29 - 19th Gear Clutch Solenoid Over Voltage
Error Code F30 - 19th Gear Clutch Dump Solenoid Over Voltage
Error Code F37 - Clutch Disconnect Switch Open Circuit
Error Code F38 - Reverse Not Allowed
Error Code F47 - Clutch Disconnect Switch Misadjusted High
Error Code F48 - Clutch Disconnect Switch Short Circuit
Error Code F49 - Transmission Output Speed Sensor Open Circuit
Error Code F50 - Transmission Output Sensor Short To Ground
Error Code F51 - Temperature Sender Open Circuit

Error Code F52 - Temperature Sender Short To Ground
Error Code F53 - +5 Volt Reference Voltage Too High
Error Code F54 - +5 Volt Reference Voltage Too Low
Error Code F59 -Forward/Neutral/Reverse Switch Disagreement (More Than One Switch Is Engaged)
Error Code F60 - Upshift Switch Input Voltage Low
Error Code F61 - Upshift Switch Input Voltage High
Error Code F62 - Downshift Switch Input Voltage Low
Error Code F63 - Downshift Switch Input Voltage High
Error Code F64 -Forward Pressure Switch Open Circuit Or Short To Ground
Error Code F65 - Reverse Pressure Switch Open Circuit Or Short To Ground Error Code F66 - Shuttle Lever Forward Switch Input Voltage Low
Error Code F67 - Shuttle Lever Forward Switch Input Voltage High Error Code F68 - Shuttle Lever Reverse Switch Input Voltage Low Error Code F69 - Shuttle Lever Reverse Switch Input Voltage High Error Code F70 - Torque Damper Fault
Error Code F71 - Engine Torque/RPM Sensor Open Circuit
Error Code F72 - Engine Torque/RPM Sensor Short To Ground
Error Code F73 - Transmission Mid Speed Sensor Open Circuit
Error Code F74 - Transmission Mid Speed Sensor Short To Ground
Error Code F75 - Swapped Mid And Output Speed Sensors
Error Code F76 - Swapped Engine Torque/RPM Sensor With Either The Mid Or Output Speed Sensors
Error Code F77 - No Signal From The Output Speed Sensor
Error Code F78 - No Signal From The Transmission Mid Speed Sensor
Error Code F79 - Engine RPM Exceeds 3000 Rev/Min
Error Code F80 -Transmission Output Rev/Min Too High For The Selected Gear
Error Code F81 - Clutch Slipping
Error Code F82 -Foot Throttle Position Sensor Potentiometer Short Circuit To +8 Volts Or +12 Volts
Error Code F83 -Foot Throttle Sensor Potentiometer Open Circuit Or Short To Ground
Error Code F84 -Pressure Indicated On Forward Clutch Pressure Switches When The Clutch Solenoids Are Off
Error Code F85 -Pressure Indicated On Reverse Clutch Pressure Switch When The Clutch Solenoids Are Off
Error Code F86 - Creeper Fails To Engage
Error Code F87 - Creeper Fails To Disengage
Error Code F88 - Creeper Potentiometer Short Circuit To +8 Or +12 Volts
Error Code F89 - Creeper Potentiometer Open Circuit Or Short To Ground
Error Code F90 - Central Controller (XCM) Not Present or generated by the EST-See Knowledge for F90
Error Code F91 - Display Of Gears Controller (CAN Dog) Not Present
Error Code FA1 -Low Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA2 -Medium Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA3 -High Range Clutch Solenoid Open Circuit Or Short To Ground
Error Code FA4 -Reverse Clutch Solenoid Open Circuit Or Short To Ground

Error Code FA5 - Creeper Solenoid Open Circuit Or Short To Ground
Error Code FAA - Clutch A Solenoid Open Circuit Or Short To Ground
Error Code FAB- Clutch B Solenoid Open Circuit Or Short To Ground
Error Code FAC - Clutch C Solenoid Open Circuit Or Short To Ground
Error Code FAD - Clutch D Solenoid Open Circuit Or Short To Ground
Error Code FAE - Clutch E Solenoid Open Circuit Or Short To Ground
Error Code FB1 - Low Range Clutch Solenoid Over Voltage
Error Code FB2 - Medium Range Clutch Solenoid Over Voltage
Error Code FB3 - High Range Clutch Solenoid Over Voltage
Error Code FB4 - Reverse Clutch Solenoid Over Voltage
Error Code FB5 - Creeper Solenoid Over Voltage
Error Code FBA - Clutch A Solenoid Over Voltage
Error Code FBB - Clutch B Solenoid Over Voltage
Error Code FBC - Clutch C Solenoid Over Voltage
Error Code FBD - Clutch D Solenoid Over Voltage
Error Code FBE - Clutch E Solenoid Over Voltage
Error Code FC0 - Secondary Controller (CFPS) Is Not Configured
Error Code FC1 - Medium Range Clutch Not Calibrated
Error Code FC2 - High Range Clutch Not Calibrated
Error Code FC3 - Reverse Clutch Not Calibrated
Error Code FC5 - Creeper Travel Out Of Range
Error Code FC8 - Creeper Not Calibrated
Error Code FC9 - 19th Gear Clutch Not Calibrated or Configuration error (download the latest software)
Error Code FCA - Clutch A Not Calibrated
Error Code FCB - Clutch B Not Calibrated
Error Code FCC - Clutch C Not Calibrated
Error Code FCD - Clutch D Not Calibrated
Error Code FCE - Clutch E Not Calibrated
Error Code FCF - Low Range Clutch Not Calibrated
Error Code N - Shift To Neutral To Re-Enable The Transmission

PTO, MFD, and Differential Lock Codes (XCM for PTO and EMU for MFD and Differential Lock)

Error Code P01 - Rear PTO Brake Solenoid Stuck Off
Error Code P02 - Rear PTO Brake Solenoid Stuck On
Error Code P03 - Rear PTO Brake Output Open Circuit
Error Code P05 – Rear PTO Brake Switch open circuit
Error Code P06 - Rear PTO Not Calibrated
Error Code P07 - Rear PTO Circuit Over Current
Error Code P08 - Rear PTO Solenoid Open Circuit Or Short To Ground
Error Code P15 - Differential Lock Solenoid Stuck Off
Error Code P16 - Differential Lock Solenoid Stuck On
Error Code P17 - Differential Lock Output Open Circuit
Error Code P18 - Differential Lock Driver Over Temperature
Error Code P21 - 4wd Solenoid Stuck Off

Error Code P22 - 4wd Solenoid Stuck On
Error Code P23 - 4wd Output Open Circuit
Error Code P24 - 4wd Driver Over Temperature
Error Code P27 - PTO Speed Sensor Open Circuit
Error Code P31 - Steering Sensor Out Of Range - (Maximum Voltage)
Error Code P32 - Steering Sensor Out Of Range - (Minimum Voltage)
Error Code P33 - Rear PTO Cab Switch Short Circuit
Error Code P34 - Fender Mounted Rear PTO Switch Short Circuit
Error Code P35 - Fender Mounted Rear PTO Switch Open Circuit
Error Code P36 - Rear PTO Failure To Start
Error Code P37 - Rear PTO Cab Switch Open Circuit
Error Code P38 – PTO Switch time out error
Error Code P50 – Incorrect code displayed because of XCM software (download the latest software)
Error Code P57 – Incorrect code displayed because of XCM software (download the latest software)
Error Code P66 – Incorrect code displayed because of XCM software (download the latest software)
Error Code P80 – Incorrect code displayed because of XCM software (download the latest software)

Electronic Hydraulic Remote Codes (XCM)
Error Code R1 - EHR Control Unit 1 Lever Not Calibrated
Error Code R2 - EHR Control Unit 2 Lever Not Calibrated
Error Code R3 - EHR Control Unit 3 Lever Not Calibrated
Error Code R4 - EHR Control Unit 4 Lever Not Calibrated
Error Code R11 - EHR Control Unit 1 Float Switch Error
Error Code R12 - EHR Control Unit 1 Active Switch Error
Error Code R13 -CAN Messages Received By The EHR Valve 1 Are Corrupted Or Missing
Error Code R14 -Valve 1 Supply Under Voltage/Over Voltage Or Output Stage Faulty Or Transducer Faulty Or Spool Neutral Error Or Spool Not Neutral Error
Error Code R15 -Valve 1 Spool Travel Short Or Spool Travel Excessive Or Open Centre Not Reached
Error Code R16 - EHR Control Unit 1 Full Flow Switch Error
Error Code R17 -No Communication Between The EHR Valve 1 And The Central Controller (XCM)
Error Code R18 - EHR Control Unit 1 Lever Faulty
Error Code R21 - EHR Control Unit 2 Float Switch Error
Error Code R22 - EHR Control Unit 2 Active Switch Error
Error Code R23 -CAN Messages Received By The EHR Valve 2 Are Corrupted Or Missing
Error Code R24 -Valve 2 Supply Under Voltage/Over Voltage Or Output Stage Faulty Or Transducer Faulty Or Spool Neutral Error Or Spool Not Neutral Error
Error Code R25 -Valve 2 Spool Travel Short Or Spool Travel Excessive Or Open Centre Not Reached

Error Code R26 - EHR Control Unit 2 Full Flow Switch Error
Error Code R27 -No Communication Between The EHR Valve 2 And The Central Controller (XCM)
Error Code R28 - EHR Control Unit 2 Lever Faulty
Error Code R31 - EHR Control Unit 3 Float Switch Error
Error Code R32 - EHR Control Unit 3 Active Switch Error
Error Code R33 -CAN Messages Received By The EHR Valve 3 Are Corrupted Or Missing
Error Code R34 -Valve 3 Supply Under Voltage/Over Voltage Or Output Stage Faulty Or Transducer Faulty Or Spool Neutral Error Or Spool Not Neutral Error
Error Code R35 -Valve 3 Spool Travel Short Or Spool Travel Excessive Or Open Centre Not Reached
Error Code R36 - EHR Control Unit 3 Full Flow Switch Error
Error Code R37 -No Communication Between The EHR Valve 3 And The Central Controller (XCM)
Error Code R38 - EHR Control Unit 3 Lever Faulty
Error Code R41 - EHR Control Unit 4 Float Switch Error
Error Code R42 - EHR Control Unit 4 Active Switch Error
Error Code R43 -CAN Messages Received By The EHR Valve 4 Are Corrupted Or Missing
Error Code R44 -Valve 4 Supply Under Voltage/Over Voltage Or Output Stage Faulty Or Transducer Faulty Or Spool Neutral Error Or Spool Not Neutral Error
Error Code R45 -Valve 4 Spool Travel Short Or Spool Travel Excessive Or Open Centre Not Reached
Error Code R46 - EHR Control Unit 4 Full Flow Switch Error
Error Code R47 -No Communication Between The EHR Valve 4 And The Central Controller (XCM)
Error Code R48 - EHR Control Unit 4 Lever Faulty
Error Code R53 -CAN Messages Received By The EHR Valve 5 Are Corrupted Or Missing
Error Code R54 -Valve 5 Supply Under Voltage/Over Voltage Or Output Stage Faulty Or Transducer Faulty Or Spool Neutral Error Or Spool Not Neutral Error
Error Code R55 -Valve 5 Spool Travel Short Or Spool Travel Excessive Or Open Centre Not Reached
Error Code R57 -No Communication Between The EHR Valve 5 And The Central Controller (XCM)

Active Flash Codes (AUX) See 55-9-543 *55-10-553* of the Repair Manual
Error Code 11 - No control message, CAN BUS message fault
Error Code 13 - Implausible control message, CAN BUS message fault
Error Code 16 - EEPROM inconsistent, Software fault
Error Code 17 - Messages not received in the specified time, CAN BUS message fault
Error Code 21 - Under voltage, Supply voltage low
Error Code 22 - Over voltage, Supply voltage high
Error Code 23 - Spool deflection too short, Valve internal fault, possibly mechanical
Error Code 24 - Spool deflection excessive, Valve internal fault, possibly mechanical

Error Code 25 - Open centre position not reached, Valve internal fault, possibly mechanical
Error Code 26 - Manual operation detected, Valve has been operated manually
Error Code 31 - Under 8 volts, Displated only if the valve does not shut-down automatically. Valve will shut off the output stage.
Error Code 32 - Over 36 or 45 volts, Displayed only if the valve does not shut-down automatically. Valve wil shut off the output stage.
Error Code 41 - Over 45 Volts, Valve will internally shut-down.
Error Code 42 - Output stage for the pilot solenoid valve fault, Valve internal fault.
Error Code 43 - Position transducer fault, Position of the spool detected by the transducer.
Error Code 81 - Valve spool cannot be returned to neutral, Valve internal fault, possibly mechanical.
Error Code 82 - Valve spool not in neutral when switched on, Valve internal fault, possibly mechanical.
Error Code 83 - Checksum error, Self diagnostic check of the system.

Electronic Engine Codes (ECU) or PTO/Hand Throttle Codes (XCM) (both displayed on the EIC as a lower case t)
Error Code T1 -Foot Throttle Position Sensor, Grounded Or Current Above Normal Range
Error Code T2 -Foot Throttle Position Sensor, Open Circuit Or Current Below Normal Range
Error Code T3 -Foot Throttle Position Sensor, Shorted To Low Source
Error Code T4 -Foot Throttle Position Sensor, Shorted To High Source
Error Code T5 -CAN AE Message (Torque Set point), Data Valid But Below Normal Range
Error Code T6 -CAN AE Message (Torque Set point), Data Incorrect
Error Code T7 -CAN AE Message (Torque Set point), Data Valid But Above Normal Range
Error Code T8 -Ambient Pressure Sensor, Grounded Or Current Above Normal Range
Error Code T9 -Ambient Pressure Sensor, Open Circuit Or Current Below Normal Range
Error Code T13 - Test Shut Off Paths, Data Valid But Above Normal Range
Error Code T14 - Test Shut Off Paths, Shorted To High Source
Error Code T15 - Shut-Off Signal, Data Valid But Above Normal Range
Error Code T16 - Shut-Off Signal, Shorted To High Source
Error Code T17 - PCU Power Supply, Data Valid But Above Normal Range
Error Code T18 - PCU Power Supply, Shorted To High Source
Error Code T19 -Fuel Quantity Shut-Off, Data Valid But Above Normal Range
Error Code T1A -Fuel Quantity Shut-Off, Shorted To High Source
Error Code T1B - Voltage Monitoring, Data Valid But Below Normal Range
Error Code T1C - Voltage Monitoring, Data Incorrect
Error Code T1D - Voltage Monitoring, Data Valid But Above Normal Range
Error Code T1E - Monitoring Module, Data Valid But Above Normal Range
Error Code T1F - Monitoring Module, Shorted To High Source

Error Code T20 -After-Run Not Completed, Data Valid But Below Normal Range
Error Code T21 -After-Run Not Completed, Data Valid But Above Normal Range
Error Code T22 -Boost Air Temperature Sensor, Grounded Or Current Above Normal Range
Error Code T23 -Boost Air Temperature Sensor, Open Circuit Or Current Below Normal Range
Error Code T24 -Boost Air Temperature Sensor, Shorted To Low Source
Error Code T25 -Boost Air Temperature Sensor, Data Valid But Above Normal Range
Error Code T26 -Boost Air Temperature Sensor (PHY), Grounded Or Current Above Normal Range
Error Code T27 -Boost Air Temperature Sensor (PHY), Data Incorrect
Error Code T28 -Boost Air Temperature Sensor (PHY), Data Valid But Above Normal Range
Error Code T29 -Boost Air Temperature Sensor (PHY), Shorted To High Source
Error Code T2C - Battery Voltage, Data Valid But Above Normal Range
Error Code T2D - Battery Voltage, Open Circuit Or Current Below Normal
Error Code T2E- Battery Voltage, Shorted To Low Source
Error Code T31 -Boost Air Pressure Sensor, Grounded Or Current Above Normal Range
Error Code T32 -Boost Air Pressure Sensor, Open Circuit Or Current Below Normal Range
Error Code T33 -Boost Air Pressure Sensor, Shorted To Low Source
Error Code T34 -Boost Air Pressure Sensor, Shorted To High Source
Error Code T35 -Boost Air Pressure Sensor (PHY), Data Valid But Above Normal Range
Error Code T36 -Boost Air Pressure Sensor (PHY), Data Incorrect
Error Code T37 -Boost Air Pressure Sensor (PHY), Shorted To High Source
Error Code T38 -Vehicle CAN Bus Transmit, Data Valid But Above Normal Range
Error Code T39 -Vehicle CAN Bus Transmit, Shorted To High Source
Error Code T3A - PCU Initialization, Data Valid But Above Normal Range
Error Code T3B - PCU Initialization, Shorted To High Source
Error Code T3C - Solenoid Valve, Data Valid But Below Normal Range
Error Code T3D - Solenoid Valve, Data Incorrect
Error Code T3E - Solenoid Valve, Data Valid But Above Normal Range
Error Code T3F - PSG Message, Data Valid But Above Normal Range
Error Code T40 - PSG Message, Shorted To High Source
Error Code T41 - Msg1 Message, Data Valid But Above Normal Range
Error Code T42 - Msg1 Message, Shorted To High Source
Error Code T45 - CAN CCVSS Message, Data Valid But Below Normal Range
Error Code T46 - CAN CCVSS Message, Data Incorrect
Error Code T47 - CAN CCVSS Message, Data Valid But Above Normal Range
Error Code T4A -Coolant Temperature Sensor, Grounded Or Current Above Normal Range
Error Code T4B -Coolant Temperature Sensor, Open Circuit Or Current Below Normal Range
Error Code T4C -Coolant Temperature Sensor, Shorted To Low Source
Error Code T4D -Coolant Temperature Sensor, Data Valid But Above Normal Range

Error Code T4E-Coolant Temperature Sensor (PHY), Data Valid But Above Normal Range
Error Code T4F -Coolant Temperature Sensor (PHY), Data Incorrect
Error Code T50 -Coolant Temperature Sensor (PHY), Shorted To High Source
Error Code T57 -Crankshaft Speed Sensor, Data Valid But Below Normal Range
Error Code T58 -Crankshaft Speed Sensor, Data Incorrect
Error Code T59 -Crankshaft Speed Sensor, Shorted To Low Source
Error Code T5A -Crankshaft Speed Sensor, Shorted To High Source
Error Code T5B -Reverse Polarity Of Engine Speed Sensor, Data Valid But Below Normal Range
Error Code T5C -Reverse Polarity Of Engine Speed Sensor, Data Valid But Above Normal Range
Error Code T66 - IAT System, Data Valid But Below Normal Range
Error Code T67 - IAT System, Data Valid But Above Normal Range
Error Code T68 - Main Relay Defect, Data Valid But Above Normal Range
Error Code T69 - Main Relay Defect, Shorted To High Source
Error Code T72 - Engine Overspeed, Data Valid But Below Normal Range
Error Code T73 - Engine Overspeed, Data Valid But Above Normal Range
Error Code T74 - ADC In PCU, Data Valid But Below Normal Range
Error Code T75 - ADC In PCU, Data Valid But Above Normal Range
Error Code T76 - Control Duration, Data Valid But Above Normal Range
Error Code T77 - Control Duration, Shorted To High Source
Error Code T7A -EEPROM Checksum In PCU, Data Valid But Below Normal Range
Error Code T7B -EEPROM Checksum In PCU, Data Valid But Above Normal Range
Error Code T7C - EEPROM In PCU, Data Valid But Below Normal Range
Error Code T7D - EEPROM In PCU, Data Valid But Above Normal Range
Error Code T7E -Crankshaft Signal In PCU, Data Valid But Below Normal Range
Error Code T7F -Crankshaft Signal In PCU, Data Valid But Above Normal Range
Error Code T80 - Pump Map, Data Valid But Below Normal Range
Error Code T81 - Pump Map, Data Valid But Above Normal Range
Error Code T84 - Ram In PCU, Data Valid But Below Normal Range
Error Code T85 - Ram In PCU, Data Valid But Above Normal Range
Error Code T86 -Solenoid Valve Power Stage, Data Valid But Below Normal Range
Error Code T87 -Solenoid Valve Power Stage, Data Valid But Above Normal Range
Error Code T88 -Solenoid Valve Power Stage 2, Data Valid But Below Normal Range
Error Code T89 -Solenoid Valve Power Stage 2, Data Valid But Above Normal Range
Error Code T8A - Shut-Off Signal, Data Valid But Below Normal Range
Error Code T8B - Shut-Off Signal, Data Valid But Above Normal Range
Error Code T8C - Pump Timing Device, Data Valid But Below Normal Range
Error Code T8D - Pump Timing Device, Data Valid But Above Normal Range
Error Code T8E -Fuel Injection Pump Temperature, Data Valid But Below Normal Range
Error Code T8F -Fuel Injection Pump Temperature, Data Incorrect
Error Code T90 -Fuel Injection Pump Temperature, Data Valid But Above Normal Range
Error Code T93 - Reserve 1, Data Valid But Above Normal Range

Error Code T96 - Monitoring Module, Data Valid But Below Normal Range
Error Code T97 - Monitoring Module, Data Valid But Above Normal Range
Error Code TA -Ambient Pressure Sensor, Shorted To Low Source
Error Code TB -Ambient Pressure Sensor, Data Valid But Above Normal Range
Error Code TC -Ambient Pressure Sensor (PHY), Data Valid But Below Normal Range
Error Code TD -Ambient Pressure Sensor (PHY), Data Incorrect
Error Code TE -Ambient Pressure Sensor (PHY), Data Valid But Above Normal Range
Error Code TF -Ambient Pressure Sensor (PHY), Shorted To High Source
Error Code TAA - PCU CAN Chip, Data Valid But Above Normal Range
Error Code TAB - PCU CAN Chip, Shorted To High Source
Error Code TAC - PCU CAN Bus Off, Data Valid But Above Normal Range
Error Code TAD - PCU CAN Bus Off, Shorted To High Source
Error Code TAE - Vehicle CAN Chip, Data Valid But Above Normal Range
Error Code TAF - Vehicle CAN Chip, Data Incorrect
Error Code TB0 - Vehicle CAN Chip, Shorted To Low Source
Error Code TB1 - Vehicle CAN Chip, Shorted To High Source
Error Code TB2 - Vehicle CAN Bus Off, Data Valid But Above Normal Range
Error Code TB3 - Vehicle CAN Bus Off, Shorted To High Source
Error Code TB4 -CAN VE Message (Speed Set point), Data Valid But Below Normal Range
Error Code TB5 -CAN VE Message (Speed Set point), Data Incorrect
Error Code TB6 -CAN VE Message (Speed Set point), Data Valid But Above Normal Range
Error Code TC2 - PTO Twist Sensor Open Circuit
Error Code TC3 - PTO Twist Sensor Short To Ground
Error Code TC4 - Engine Torque/RPM Sensor Open Circuit
Error Code TC5 - Engine Torque/RPM Sensor Short To Ground
Error Code TC6 - PTO Twist Sensor Not Calibrated
Error Code TC7 - No Signal From The PTO Twist Speed Sensor
Error Code TC8 - No Signal From The Engine Torque/RPM Sensor
Error Code TC9 - PTO Twist Speed Sensor Over Voltage
Error Code TCA - CAN In PCU, Shorted To Low Source
Error Code TCB - CAN In PCU, Shorted To High Source
Error Code TCC - PCU Initialization, Data Valid But Below Normal Range
Error Code TCD - 1 CAN Chip, Data Valid But Below Normal Range
Error Code TCE - 1 CAN Chip, Data Valid But Above Normal Range
Error Code TCF - 1 CAN Chip, Shorted To High Source
Error Code TD0 - PCU Power Supply, Data Valid But Below Normal Range
Error Code TD1 -Hand Throttle Position Sensor Potentiometer 1 Over Voltage
Error Code TD2 -Hand Throttle Position Sensor Potentiometer 1 Under Voltage
Error Code TD3 -Hand Throttle Position Sensor Potentiometer 2 Over Voltage
Error Code TD4 -Hand Throttle Position Sensor Potentiometer 2 Under Voltage
Error Code TD5 - Hand Throttle Position Sensor Difference Error
Error Code TD6 - Hand Throttle Idle Switch Open Circuit
Error Code TD7 - Hand Throttle Idle Switch Closed Circuit
Error Code TD8 - PCU Power Supply, Data Valid But Above Normal Range

Error Code TE1 - Transmission oil plausibility error (transmission oil temperature signal out of limits)
Error Code TE2 - Fan rpm out of range
Error Code TE3 - Maximum fan speed low error
Error Code TE4 - Fan speed signal error
Error Code TE5 - Last element (unknown input)